

Access DB# 92577**SEARCH REQUEST FORM**

Scientific and Technical Information Center

Requester's Full Name: ROBIN HYLTON Examiner #: 72454 Date: 4/26/03
Art Unit: 3727 Phone Number 308-1208 Serial Number: 09/937502
Mail Box and Bldg/Room Location: CP2 9E12 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: CANInventors (please provide full names): Nam-young KimEarliest Priority Filing Date: 3/29/1999

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

- can goes from "wrinkled" to "wavy" portion

- avoids use of pull tab

STAFF USE ONLY

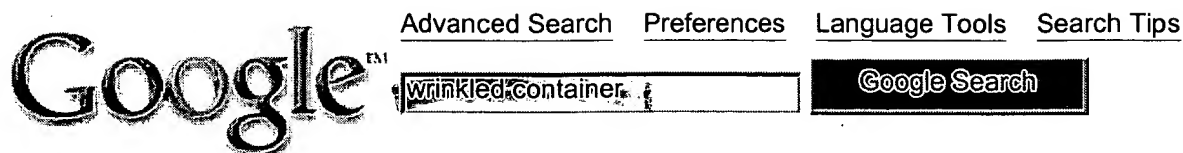
Searcher: Julie Walko
Searcher Phone #: 305-8587
Searcher Location: CP2-2C08
Date Searcher Picked Up: 4/29/03
Date Completed: 4/29/03
Searcher Prep & Review Time: 32m
Clerical Prep Time: _____
Online Time: 23m

Type of Search

NA Sequence (#) _____
AA Sequence (#) _____
Structure (#) _____
Bibliographic ☒
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Fulltext ☒
Patent Family _____
Other _____

Vendors and cost where applicable

STN _____
Dialog ☒
Questel/Orbit _____
Dr.Link _____
Lexis/Nexis _____
Sequence Systems _____
WWW/Internet ☒
Other (specify) _____



Web - Images - Groups - Directory - News

Searched the web for **wrinkled container**.

Results 1 - 10 of about 12,500. Search took 0.15 seconds.

Container (Introduction)

... Also, you must be careful not to get your clothes **wrinkled** inside, as a matter of course. ... CONCISE Online Shop > Traveling Goods > **Container I** (introduction). ...

www.concise.co.jp/eng0731/cntain01.html - 17k - [Cached](#) - [Similar pages](#)

Container (Specifications)

CONCISE Online Shop > Traveling Goods > **Container I** (introduction) > **Container II**

(specifications). ... helps you keep clothes in shape so as not to get **wrinkled**. ...

www.concise.co.jp/eng0731/cntain02.html - 34k - [Cached](#) - [Similar pages](#)

[[More results from www.concise.co.jp](#)]

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Container Sale

All Shapes and Sizes
Same Day Shipping. 25 Locations.
www.BettyMills.com
Interest: [View details](#)

[See your message here...](#)

Section 7CFR42.112

... Dirty, stained or smeared **container**. 203 or **wrinkled**.....c)

Scratched or scored.....

a257.g.akamaitech.net/7/257/2422/14mar20010800/edocket.access.gpo.gov/cfr_2003/7cfr42.112.htm - 13k -

[Cached](#) - [Similar pages](#)

[PDF] Agricultural Marketing Service, USDA § 42.112

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... 202 (b) Blistered, flaked, sagged, or **wrinkled**.....

a257.g.akamaitech.net/7/257/2422/14mar20010800/edocket.access.gpo.gov/cfr_2003/pdf/7cfr42.112.pdf - [Similar pages](#)

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Plants Unlimited, Retail Garden Center, Growing Maine's Largest ...

... Dark shiny green, **wrinkled** foliage is attractive through out the season and shows good fall color with very few hips. Zone: 3-8 3 GALLON **CONTAINER** \$ 22.95. ...

www.plantsforme.com/product_detail.asp?CatID=66 - 13k - [Cached](#) - [Similar pages](#)

[PDF] Reminder: (a) Related defects are defects on a single **container**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... 202 (b) Blistered, flaked, sagged, or **wrinkled**.....

www.dsccp.dla.mil/subs/subsbo/vis-aids/tableIV.pdf - [Similar pages](#)

[PDF] CONTAINER LABEL

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... Sides of Outer **Container** For Shrink Wrap apply to exterior of plastic, if no shrink wrap apply so labels are scannable and not damaged, or **wrinkled**. ...

www.aam.com/supplier/materialsupplier.pdf - [Similar pages](#)

Cook'n Newsletter

... Soft, **wrinkled**, leaky grapes with brown, dry stems; grapes with bleached stem ends.

Store, unwashed, in covered **container** in refrigerator for up to 5 days. ...

www.dvo.com/newsletter/monthly/2000/july/freshfruit.html - 24k - [Cached](#) - [Similar pages](#)

[mLnk - Main Index Container](#)

... 5) , Woodstar (2) , Woodswallow (1) , Woolly-necked (2) , work (1) , World (37)
 , Worm-eating (1) , Wreathed (1) , Wren (11) , **Wrinkled** (1) , Writers (1 ...
www.birdtheme.org/index/w_0.htm - 95k - [Cached](#) - [Similar pages](#)

nbc4.com - Tricks Of The Trade Archive - Tricks of the Trade ...

... stuff into a suitcase. Chris Mattscheck, The **Container** Store And then
it gets **wrinkled**. Crenshaw Right. Chris Mattscheck, The **Container** ...

www.nbc4.com/tricksofthetradearchive/1159732/detail.html%20/ - 43k - [Cached](#) - [Similar pages](#)

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Inventor
Search

7/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013430391 **Image available**
WPI Acc No: 2000-602334/200057
XRPX Acc No: N00-445650

Can used as beverage container , liquor pack containers , has thimble
for seal breaking adjacent to notch and wrinkle portions to be bent
into waveform shape when notched portion is torn off by thimble in
sealing lid

Patent Assignee: KIM N (KIMN-I); KIM N Y (KIMN-I); MAGICPIA INC (MAGI-N)

Inventor: KIM N ; KIM N Y

Number of Countries: 022 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200058158	A2	20001005	WO 2000KR273	A	20000329	200057 B
KR 2000061657	A	20001025	KR 9910868	A	19990329	200124
KR 2001111502	A	20011219	KR 2001712278	A	20010926	200238
JP 2002540022	W	20021126	JP 2000607876	A	20000329	200307
			WO 2000KR273	A	20000329	

Priority Applications (No Type Date): KR 9910868 A 19990329

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200058158 A2 E 23 B65D-000/00

Designated States (National): CN JP KR US

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU

MC NL PT SE

KR 2000061657 A B65D-017/00

KR 2001111502 A B65D-017/00

JP 2002540022 W 23 B65D-017/32 Based on patent WO 200058158

Abstract (Basic): WO 200058158 A2

NOVELTY - The **can** comprises main body (22) having storage cavity
inside the sealing lid. The sealing lid has arcuate notch portion (24)
for sectioning formed on its upper surface. A thimble (34) is formed
vertically adjacent the notch portion (24) and a pair of **wrinkles** , to
be bent into a waveform when the notch portion is torn by bending the
thimble (35).

USE - Used as beverage **container** and liquor drinks pack
containers .

ADVANTAGE - Offers a **can** with structure easy to seal break
without completely detaching the seal, as thimble is formed adjacent to
notch and provides **wrinkles** to be bent to waveform, hence saves
resources. Simple to manufacture as structure is simplified.

DESCRIPTION OF DRAWING(S) - The figure shows the perspective view
of **can** .

Main body (22)

Notch portion (24)

Thimbles (34,35)

pp; 23 DwgNo 2/13

Title Terms: **CAN** ; BEVERAGE; **CONTAINER** ; LIQUOR; PACK; **CONTAINER** ;

THIMBLE; SEAL; BREAK; ADJACENT; NOTCH; **WRINKLE** ; PORTION; BEND; WAVEFORM
; SHAPE; NOTCH; PORTION; TORN; THIMBLE; SEAL; LID

Derwent Class: Q32

International Patent Class (Main): B65D-000/00; B65D-017/00; B65D-017/32

File Segment: EngPI

Set	Items	Description
S1	504	AU='KIM N'
S2	115	AU='KIM N Y'
S3	6	AU='KIM NAM YOUNG'
S4	4	AU='KIM NAM-YOUNG'
S5	617	S1:S4
S6	49	S5 AND (CAN OR CANS OR CONTAINER? ?)
S7	1	S6 AND WRINKL?

? show files

File 347:JAPIO Oct 1976-2002/Dec(Updated 030402)

(c) 2003 JPO & JAPIO

File 348:EUROPEAN PATENTS 1978-2003/Apr W03

(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20030424,UT=20030417

(c) 2003 WIPO/Univentio

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200325

(c) 2003 THOMSON DERWENT

File 371:French Patents 1961-2002/BOPI 200209

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B. b. b.
Patents

6/5/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 THOMSON DERWENT. All rts. reserv.

013430391 **Image available**
WPI Acc No: 2000-602334/200057
XRPX Acc No: N00-445650

Can used as beverage container, liquor pack containers , has thimble for seal breaking adjacent to notch and wrinkle portions to be bent into waveform shape when notched portion is torn off by thimble in sealing lid

the
Patent

Patent Assignee: KIM N (KIMN-I); KIM N Y (KIMN-I); MAGICPIA INC (MAGI-N)

Inventor: KIM N; KIM N Y

Number of Countries: 022 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200058158	A2	20001005	WO 2000KR273	A	20000329	200057 B
KR 2000061657	A	20001025	KR 9910868	A	19990329	200124
KR 2001111502	A	20011219	KR 2001712278	A	20010926	200238
JP 2002540022	W	20021126	JP 2000607876	A	20000329	200307
			WO 2000KR273	A	20000329	

Priority Applications (No Type Date): KR 9910868 A 19990329

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200058158 A2 E 23 B65D-000/00

Designated States (National): CN JP KR US

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE

KR 2000061657 A B65D-017/00

KR 2001111502 A B65D-017/00

JP 2002540022 W 23 B65D-017/32 Based on patent WO 200058158

Abstract (Basic): WO 200058158 A2

NOVELTY - The can comprises main body (22) having storage cavity inside the sealing lid. The sealing lid has arcuate notch portion (24) for sectioning formed on its upper surface. A thimble (34) is formed vertically adjacent the notch portion (24) and a pair of wrinkles, to be bent into a waveform when the notch portion is torn by bending the thimble (35).

USE - Used as beverage container and liquor drinks pack containers.

ADVANTAGE - Offers a can with structure easy to seal break without completely detaching the seal, as thimble is formed adjacent to notch and provides wrinkles to be bent to waveform, hence saves resources. Simple to manufacture as structure is simplified.

DESCRIPTION OF DRAWING(S) - The figure shows the perspective view of can.

Main body (22)

Notch portion (24)

Thimbles (34, 35)

pp; 23 DwgNo 2/13

Title Terms: CAN; BEVERAGE; CONTAINER; LIQUOR; PACK; CONTAINER; THIMBLE; SEAL; BREAK; ADJACENT; NOTCH; WRINKLE; PORTION; BEND; WAVEFORM; SHAPE; NOTCH; PORTION; TORN; THIMBLE; SEAL; LID

Derwent Class: Q32

International Patent Class (Main): B65D-000/00; B65D-017/00 ; B65D-017/32

File Segment: EngPI

6/5/17 (Item 17 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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010246546 **Image available**
WPI Acc No: 1995-147801/199520
XRPX Acc No: N95-116051

Tamper evident plastics container - has lines of weakness along outer wall of container lip which tear during opening and fold down
Patent Assignee: VON HOLDT J W (VHOL-I); PLAS TOOL CO (PLAS-N)
Inventor: VON HOLDT J W
Number of Countries: 003 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2128289	A	19950212	CA 2128289	A	19940718	199520 B
US 5437386	A	19950801	US 93105305	A	19930811	199536
CN 1118325	A	19960313	CN 94109506	A	19940811	199743

Priority Applications (No Type Date): US 93105305 A 19930811

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CA 2128289	A		20	B65D-041/40	
US 5437386	A		7	B65D-017/32	
CN 1118325	A			B65D-017/00	

Abstract (Basic): CA 2128289 A

The plastics container has a sidewall closed at one end and open at the other end. A container lip at the other end comprises a pair of spaced walls surrounding the longitudinal axis of the container, to define a recess between the walls for receiving and locking a peripheral container lid portion on the container.

The outer wall has at least one pair of spaced points of tearing weakness to permit breaking of the wall and outward folding of the part positioned between the points of tearing weakness, to provide access to the peripheral lid portion for lid removal.

ADVANTAGE - Tamper-evident portion remains attached to container, reducing litter.

Dwg.2,3/11

Title Terms: TAMPER; EVIDENCE; PLASTICS; CONTAINER; LINE; WEAK; OUTER; WALL ; CONTAINER; LIP; TEAR; OPEN; FOLD; DOWN

Derwent Class: Q32; Q33

International Patent Class (Main): B65D-017/00 ; B65D-017/32 ; B65D-041/40

International Patent Class (Additional): B65D-041/16; B65D-041/32

File Segment: EngPI

6/5/23 (Item 23 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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008733318 **Image available**
WPI Acc No: 1991-237334/199132
XRAM Acc No: C91-103172
XRPX Acc No: N91-181066

Forming peelable seal between lid and container - by forming interlocking waves of lid and container materials, to maximise burst strength and minimise peel strength

Patent Assignee: SHELL INT RES MIJ BV (SHEL); RAMPART PACKAGING I (RAMP-N)

Inventor: THOMAS J S

Number of Countries: 021 Number of Patents: 011

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5034074	A	19910723	US 90471330	A	19900129	199132 B
EP 440291	A	19910807	EP 91200150	A	19910125	199132
AU 9170001	A	19910801				199138
CA 2035017	A	19910730				199141
BR 9100330	A	19911022				199147
ZA 9100571	A	19911127	ZA 91100571	A	19910125	199202 N
CN 1053775	A	19910814	CN 91100457	A	19910125	199220
EP 440291	B1	19941012	EP 91200150	A	19910125	199439
DE 69104510	E	19941117	DE 604510	A	19910125	199445
			EP 91200150	A	19910125	
ES 2062656	T3	19941216	EP 91200150	A	19910125	199505
IE 65468	B	19951101	IE 91274	A	19910125	199604

Priority Applications (No Type Date): US 90471330 A 19900129; US 90471329 A 19900129; ZA 91100571 A 19910125

Cited Patents: EP 324260; US 4810541

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 440291	A				
Designated States (Regional): AT BE CH DE ES FR GB GR IT LI LU NL SE					
EP 440291	B1 E	11		B65D-077/20	
Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI LU NL SE					
DE 69104510	E			B65D-077/20	Based on patent EP 440291
ES 2062656	T3			B65D-077/20	Based on patent EP 440291
CN 1053775	A			B65D-041/02	
IE 65468	B			B65D-077/20	

Abstract (Basic): US 5034074 A

A peelable seal is formed between a lid (14) formed of a first material and a container (12) formed of a second material by: (a) heating the portion of the lid (14) in contact with a flange (16) of the container so as to melt or soften the materials, (b) pressing the lid and flange portions together in the area (42) to be sealed, to form first and second waves (62,70) in the first and second materials respectively, (c) maintaining the pressure so as to displace the apex (76) of the first wave (62) below the apex (80) of the second wave (70) and form an interlock area (88) therebetween, the material of the second wave remaining with the container when the lid is peeled from the container.

USE/ADVANTAGE - The container is esp. for foodstuffs, requiring that the lid remains in place despite the strains imposed during transportation. The container has greatly increased burst strength without unduly hampering the consumer from peeling the lid from the container. (8pp Dwg.No.2/5

Title Terms: FORMING; PEEL; SEAL; LID; CONTAINER; FORMING; INTERLOCKING; WAVE; LID; CONTAINER; MATERIAL; MAXIMISE; BURST; STRENGTH; MINIMISE; PEEL ; STRENGTH

Derwent Class: A92; Q31; Q32; Q33; Q34

International Patent Class (Main): B65D-041/02; B65D-077/20

International Patent Class (Additional): B65B-007/28; B65D-017/40 ; B65D-025/08; B65D-043/02; B65D-045/32; B65D-053/00

File Segment: CPI; EngPI

6/5/32 (Item 32 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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004204572

WPI Acc No: 1985-031452/198505

XRPX Acc No: N85-023268

Tamper telltale closure for container - has disc like body with skirt depending over container and having weakening fold line

Patent Assignee: SEALRIGHT CO INC (SEAL-N)

Inventor: SMITH E L

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4493432	A	19850115	US 83558892	A	19831207	198505 B

Priority Applications (No Type Date): US 83558892 A 19831207

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4493432	A		5		

Abstract (Basic): US 4493432 A

The closure has a discoidal lid body and a peripheral skirt. A detachable lock ring is connected with the skirt along a weakened fold line which provides a hinge about which the lock ring is folded inwardly inside of the skirt. The rim of the container is rolled outwardly and has a free edge which interlocks with the lock ring to secure the lid on the container.

The lid can be removed only after the lock ring has been removed by tearing it away from the skirt along the weakened fold line. Absence of or damage to the lock ring indicates opening of the container while the presence of the lock ring confirms that the container has not been opened.

USE - Closure for a food container, constructed to visually indicate whether or not the container has been opened without authorisation.

3/5

Title Terms: TAMPER; TELLTALE; CLOSURE; CONTAINER; DISC; BODY; SKIRT; DEPEND; CONTAINER; WEAK; FOLD; LINE

Derwent Class: Q32

International Patent Class (Additional): B65D-017/34

File Segment: EngPI

6/5/51 (Item 51 from file: 347)

DIALOG(R)File 347:JAPIO

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03123044 **Image available**
CAN CONTAINER LID

PUB. NO.: 02-098544 [JP 2098544 A]

PUBLISHED: April 10, 1990 (19900410)

INVENTOR(s): SATO KAZUNORI

YAMAMOTO SADA0

ISHIWATARI KIYOKAZU

APPLICANT(s): SHOWA DENKO KK [000200] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 63-240865 [JP 88240865]

FILED: September 28, 1988 (19880928)

INTL CLASS: [5] B65D-017/28

JAPIO CLASS: 31.2 (PACKAGING -- Containers); 11.4 (AGRICULTURE -- Food Products); 14.2 (ORGANIC CHEMISTRY -- High Polymer Molecular Compounds)

JAPIO KEYWORD: R046 (CHEMISTRY -- Gas Barrier Resins); R119 (CHEMISTRY -- Heat Resistant Resins)

*invented but
not applicable*

JOURNAL: Section: M, Section No. 992, Vol. 14, No. 305, Pg. 60, June 29, 1990 (19900629)

ABSTRACT

PURPOSE: To make a notched part inconspicuous from the top of a lid and increase a tamper resistance functions by projecting a part of a base material for a can container cover made of a gas barrier property multi-ply material and forming a thin thickness part at a thermoplastic resin layer laminated thereon.

CONSTITUTION: A protrusion 17 is made at a part of a base material 16 for a can container cover and also a thin thickness part 19 is provided at the periphery of a laminated thermo-plastic resin layer 18. A circular gas barrier multi-ply material 16' made of at least three-layer structure, having thermo-plastic resin layers on the both surfaces of said gas barrier material made of aluminum or the like, is positioned between a male metal mold and a female one and pressed to form the base material 16 for the ~~can container cover~~ having a plurality of wrinkles. 24 and a flange 27. This base material is positioned in an extruding metal mold 28 to extrude thermo-plastic resin 19'. In the metal mold 28, a projection is preferably provided to form a protrusion 17. Further a tab 14 to open the lid can be set at the same time with the extrusion molding.

Set	Items	Description
S1	4616710	CAN OR CANS OR CONTAINER? ?
S2	582791	WRINKL? OR FOLD? ? OR PLEAT? ? OR WAVE? ? OR WAVY
S3	268	S1 AND S2 AND IC=B65D-017
S4	54	S1(10N)S2 AND IC=B65D-017
S5	54	IDPAT. (sorted in duplicate/non-duplicate order)
S6	52	IDPAT (primary/non-duplicate records only)

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File 347:JAPIO Oct 1976-2002/Dec(Updated 030402)
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File 350:Derwent WPIX 1963-2003/UD,UM &UP=200325
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File 371:French Patents 1961-2002/BOPI 200209
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5/5,K/4 (Item 4 from file: 348)
 DIALOG(R) File 348:EUROPEAN PATENTS
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00757828

CONTAINER FOR BEVERAGES, PRESERVED FOOD PRODUCTS AND THE LIKE

PATENT ASSIGNEE:

INVESTIGACION DESARROLLO, CREACION Y MEJORA DE PRODUCTOS, S.L.; (2100060)
 , Pi i Margall, 136, 08140 Caldes de Montbui, (ES), (applicant
 designated states: AT;BE;CH;DE;DK;ES;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

INVENTOR:

PUENTE PUBILL, Gustavo, Investigacion, Des. Crea. y Mej. Productos, S.L.,
 Pi i Margall, 136, E-08140 C. de Montbui, (ES)

LEGAL REPRESENTATIVE:

Aragones Forner, Rafael Angel (54981), Pastells & Aragones, S.L. Pau
 Claris, 138, 08009 Barcelona, (ES)

PATENT (CC, No, Kind, Date): EP 744355 A1 961127 (Basic)
 WO 9603331 960208

APPLICATION (CC, No, Date): EP 95944001 950719; WO 95ES89 950719

PRIORITY (CC, No, Date): ES 941620 940722; ES 95246 950208; ES 951414
 950714

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
 NL; PT; SE

INTERNATIONAL PATENT CLASS: B65D-077/28; **B65D-017/00** ; B65D-025/44

ABSTRACT EP 744355 A1

The container comprises at its mouth a device combined with the
 internal side of the lid (T) and the opening (3) of the latter, in order
 to form the emergence, with respect to the mouth of the container (1), of
 a tubular body (C) which extends as a continuous sheet remaining, at the
 edge, interleaved between the lid and the body of the container, the
 product contained in the container (1) coming out directly through the
 tubular body without contacting the external part of the container. (see
 image in original document) (see image in original document)

ABSTRACT WORD COUNT: 108

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 960515 A International application (Art. 158(1))

Application: 961127 A1 Published application (A1with Search Report
 ;A2without Search Report)

Examination: 961127 A1 Date of filing of request for examination:
 960725

Examination: 980916 A1 Date of despatch of first examination report:
 980804

Withdrawal: 990616 A1 Date on which the European patent application
 was deemed to be withdrawn: 981215

LANGUAGE (Publication,Procedural,Application): English; English; Spanish

...SPECIFICATION container, when this is opened. The tubular neck can have a
 partly concertinaed section.

For **cans** of food, the tube displays continuous **folds** all round its
 circumference, of which the outermost fold line defines the tear-away
 membrane. The continuous **folds** are arranged all around the main body of
 the **container**, at a certain distance from the lid, to prevent them from
 being cut by the...containers can, or need not, incorporate the concertinaed
 section -F-. The number and arrangement of **folds** in the tube -C- for
 preserved foods **containers** may be as appropriate.

As per the invention, the container for beverages, preserved foods and...

5/5,K/7 (Item 7 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00519172

Beverage can end.

Getrankedosenendeckel.

Couvercle de boîte de boisson.

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 531619 A2 930317 (Basic)
EP 531619 A3 930505

APPLICATION (CC, No, Date): EP 92107907 920511;

PRIORITY (CC, No, Date): US 757981 910912

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; MC; NL;
PT; SE

INTERNATIONAL PATENT CLASS: B65D-017/34

CITED PATENTS (EP A): US 4144994 A; US 4749099 A; CH 444697 A; US 4124139 A

ABSTRACT EP 531619 A2

An end wall for beverage containers, in which the end wall has a center section (15) extending across its width, and reduced thickness side sections (13,14) on opposite sides of the center section, thereby enabling the end wall to be manufactured with less material than is required in conventional end wall constructions. The center section is of the same thickness as used in conventional container end walls, and is able to support a pull tab (16) and associated pull ring (17), while at the same time reinforcing the end wall. The reduced thickness side sections (13,14) are only about one-half as thick as the center section (15), and all shaping to produce the reduced thickness is performed on the top surface of the end wall, so that the underside remains flat. (see image in original document)

ABSTRACT WORD COUNT: 138

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 930317 A2 Published application (Alwith Search Report
;A2without Search Report)

Search Report: 930505 A3 Separate publication of the European or
International search report

Withdrawal: 940706 A2 Date on which the European patent application
was deemed to be withdrawn: 931106

LANGUAGE (Publication,Procedural,Application): English; English; English

...SPECIFICATION of reinforcing configurations 60, 61 are formed in the reduced thickness side portions of the **container** end wall. These may comprise vertical **folds**, channels, or indicia such as company logo, etc.,

or other means known in the art...

5/5,K/13 (Item 13 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00332949

**ABUSE RESISTANT, SAFETY-EDGE, CONTROLLED-OPENING CONVENIENCE-FEATURE
ENDCLOSURES.**

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 333805 A1 890927 (Basic)
WO 8902854 890406

APPLICATION (CC, No, Date): EP 88908041 880722; WO 88US2512 880722

PRIORITY (CC, No, Date): PC US 870929; PC US 871223; US 147267 880122; PC
US 880720

DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS: B65D-017/34 ; B65D-017/40 ; B65D-017/44 ;
B21D-039/00; B23P-011/00

CITED PATENTS (WO A): US 3186582 A; US 3195767 A; US 3833144 A; US 3875884
A; US 3781972 A; US 3813001 A

CITED REFERENCES (EP A):

See also references of WO8902854;

ABSTRACT EP 333805 A1

A convenience-feature full-open end closure structure (27) with a shock-absorbing bead (45) located between a peripheral scoreline (34) which defines the end wall disc (31) to be removed from a recessed end wall panel (49). An arch-shaped back scoreline means with central vent portion (36) and legs (37, 38) is located within the removable disc (31) and co-acts with a longitudinally rigid (non-lanced) opener (30) which is made integral by a rivet (32) formed from sheet metal of disc (31). A multi-layer sheet metal fold (40) shields the raw edge of ruptured residual peripheral scoreline metal which remains with disc (31); and a multi-layer sheet metal fold (42) shields residual raw-edge metal remaining with container (94). The back scoreline central portion (36) is contiguous to and radially inward of rivet (32) and the pair of legs (37, 38) extend with a radially-directed component on opposite sides of the rivet toward the adjacent portion of the peripheral chime seam (92). Such legs (37, 38) intersect multi-layer fold (40) forming a chord (88,90) of preselected length about which such opener (30) rotates to provide continued lever action severance of such peripheral scoreline (34).

ABSTRACT WORD COUNT: 195

NOTE: No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 890927 A1 Published application (A1with Search Report
;A2without Search Report)

Examination: 890927 A1 Date of filing of request for examination:
890526
Withdrawal: 900926 A1 Date on which the European patent application
was withdrawn: 900807
*Withdrawal: 901114 A1 Date on which the European patent application
was withdrawn (change): 900807
LANGUAGE (Publication,Procedural,Application): English; English; English

...SPECIFICATION end wall panel and initiation of pre-folding of an outer multi-layer sheet metal **fold** for shielding residual torn metal remaining with the **container** ,

FIG. 11 shows completion of such multi-layer sheet metal **folds** and forming profiling in a panel portion, and

FIG. 12 shows completing formation of the...the diameter of the rounded-edge transition zone metal 44 of multi-layer sheet-metal **fold** 42. The apex of scoreline 34 (at which rupture occurs) **can** also approximate, but is less than the circumference of transition zone metal

44. These teachings...

...CLAIMS according to claim 1 or 2 in which the shielding means (42) remaining with the **container** comprises multi-layer **folds** of sheet metal with a rounded-edge metal portion (44) located so as to restrict...

...for providing an opening in the end closure structure (27) to facilitate full removal of **container** contents,

a multi-layer sheet metal **fold** (40) located on the interior surface in relation to **container** (94) and circumscribing the removable end wall disc (31) contiguous to the peripheral scoreline (34...

5/5,K/29 (Item 29 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00745021 **Image available**

CAN

BOITE-BOISSON

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200058158 A2-A3 20001005 (WO 0058158)

Application: WO 2000KR273 20000329 (PCT/WO KR0000273)

Priority Application: KR 9910868 19990329

Designated States: CN JP KR US

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: B65D-017/00

Publication Language: English

Filing Language: Korean

English Abstract

A can (20) includes a main body (22) having a predetermined cavity (21)

*the
Patent*

for storing beverage, a seal member (30) sectioned by an arch shaped notch portion (24) formed on an upper surface of the main body and having first and second inclined portions (32, 33) with respect to a support wrinkled portion (31) formed with a step, a thimble portion (34) formed at the seal member such that the support **wrinkled** portion adjacent to the notch portion **can** be vertically disposed at a central portion thereof, a **wrinkled** portion (35) formed at the second inclined portion and bent in a wave shape when the notch portion is destroyed, and an initial destruction portion (36) formed at a portion adjacent to the thimble portion and the notch portion for initially destroying the notch portion when the thimble portion is bent.

Legal Status (Type, Date, Text)

Publication 20001005 A2 In English translation (filed in Korean).
Publication 20001005 A2 Without international search report and to be republished upon receipt of that report.
Examination 20010111 Request for preliminary examination prior to end of 19th month from priority date
Search Rpt 20010419 Late publication of international search report
Republication 20010419 A3 With international search report.

5/5,K/30 (Item 30 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00572389 **Image available**

PACKING CONTAINER AND ITS USE

RECIPIENT D'EMBALLAGE ET UTILISATION DE CE RECIPIENT

Patent Applicant/Assignee:

TOMA TRADE S R O,
TEREBA Tomsss

Inventor(s):

TEREBA Tomsss

Patent and Priority Information (Country, Number, Date):

Patent: WO 200035762 A1 20000622 (WO 0035762)

Application: WO 99CZ51 19991215 (PCT/WO CZ9900051)

Priority Application: US 98418598 19981216

Designated States: AT AU BA BG BR CA CH CN DE DK EE ES FI GB GE HR HU ID IL
IN JP LV MD MX NO PL PT RO RU SE SI SK TR UA US YU AM AZ BY KG KZ MD RU
TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: **B65D-017/40**

International Patent Class: B65D-005/54; B65D-005/70

Publication Language: English

English Abstract

A closed packing container (1, 10, 20) for the packaging of comestibles or foodstuffs, made on the whole of layers of paper or cardboard, has on the upper wall (5, 13, 21) an opening line (6, 14, 22), impermeable for the packaged interior contents, created from perforations, grooves, incisions or weakened seams, defining after opening an opened surface (7, 16, 23) which occupies a minimum of 20 % and advantageously 70 % up to 100 % of the surface of the upper wall (5, 13, 21). The opened surface (7, 16, 23) can have a taper (8). The opening line (6, 14, 22) is advantageously situated entirely or in part in close proximity (9, 15) to

the perimeter of the upper wall (5, 13, 21) and **can** be **wavy** . The opening line (6, 14, 22) and/or the opened surface (7, 16, 23) can be equipped with an opening device (9, 15), either a cutting or tearing device. The package container (1, 16, 20) with a relatively great opened surface (7, 16, 23) after opening is suitable for use as a feeding vessel for small domestic animals.

Detailed Description

...The pouring, sucking or discharging outlet is usually situated in a **fold** at the upper part of the packing **container** , i.e. in the reinforced part of the packing container. The size of the outlet...

...Furthermore it is advantageous if the opening line is **wavy** , which **can** facilitate the line of tearing or cutting in the event of large dimensions.

It is...opening surface the whole conicall part, and fig. 6 axonometric view of the cylindrical packing **container** with **wavy** opening surface.

...the spike cuts into the taper 8 with the adjacent oblique edge, the cut part **folds** outside of the upper surface 5 of package **container** I and by pulling in the direction of the opposite side wall 3 the whole...

Set	Items	Description
S1	1220319	CAN OR CANS OR CONTAINER? ?
S2	224871	WRINKL? OR FOLD? ? OR PLEAT? ? OR WAVE? ? OR WAVY
S3	49	S1(10N)S2 AND IC=B65D-017
S4	49	IDPAT (sorted in duplicate/non-duplicate order)
S5	47	IDPAT (primary/non-duplicate records only)

? show files

File 348:EUROPEAN PATENTS 1978-2003/Apr W03

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File 349:PCT FULLTEXT 1979-2002/UB=20030424,UT=20030417

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Biblv NPL

7/TI/1 (Item 1 from file: 51)
DIALOG(R)File 51:(c) 2003 FSTA IFIS Publishing. All rts. reserv.

Shaped cans are here to stay.

7/TI/2 (Item 2 from file: 51)
DIALOG(R)File 51:(c) 2003 FSTA IFIS Publishing. All rts. reserv.

Baffle device for beverage containers .

7/TI/3 (Item 1 from file: 53)
DIALOG(R)File 53:(c) 2003 LFRA. All rts. reserv.

Insulated beverage or food container .

7/TI/4 (Item 2 from file: 53)
DIALOG(R)File 53:(c) 2003 LFRA. All rts. reserv.

Electromagnetic acoustic transducer (EMAT) for ultrasonic inspection of liquids in containers.

7/TI/5 (Item 3 from file: 53)
DIALOG(R)File 53:(c) 2003 LFRA. All rts. reserv.

Method and punch for necking cans.

7/TI/6 (Item 4 from file: 53)
DIALOG(R)File 53:(c) 2003 LFRA. All rts. reserv.

Beverage container with wavy transition wall geometry.

7/TI/7 (Item 5 from file: 53)
DIALOG(R)File 53:(c) 2003 LFRA. All rts. reserv.

Unique applications of machine vision for container inspection and sorting.

7/TI/8 (Item 1 from file: 240)
DIALOG(R)File 240:(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

Convenience Packaging: [19]90s Trend

7/TI/9 (Item 2 from file: 240)
DIALOG(R)File 240:(c) 2003 Elsevier Eng. Info. Inc. All rts.. reserv.

Food Packaging in the U.S.A

7/TI/10 (Item 3 from file: 240)
DIALOG(R)File 240:(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

Composite Container with Balloon Fold

7/TI/11 (Item 1 from file: 248)
DIALOG(R)File 248:(c) 2003 Pira International. All rts. reserv.

Title: Paperboard for transport and presentation

Set	Items	Description
S1	4564225	CAN OR CANS OR CONTAINER? ?
S2	1457020	WRINKL? OR PLEAT? ? OR WAVE? ? OR WAVY
S3	30102	S1(5N)S2
S4	13	S3 AND S1(2N) (BEVERAGE? ? OR DRINK?)
S5	11	S4 NOT PY>1999
S6	11	RD (unique items)
S7	11	S6 NOT PD>19990329

? show files

File 6:NTIS 1964-2003/Apr W4
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File 34:SciSearch(R) Cited Ref Sci 1990-2003/Apr W3
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File 51:Food Sci.&Tech.Abs 1969-2003/Apr W3
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File 53:FOODLINE(R): Food Science & Technology 1972-2003/Apr 28
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(c) 2003 Pira International

File 252:Packaging Sci&Tech 1982-1997/Oct
(c) 1997 by Fraunhofer-ILV, Germany

File 323:RAPRA Rubber & Plastics 1972-2003/Apr
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File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
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